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## GROUP 17

# ENGINE AND EMISSION CONTROL

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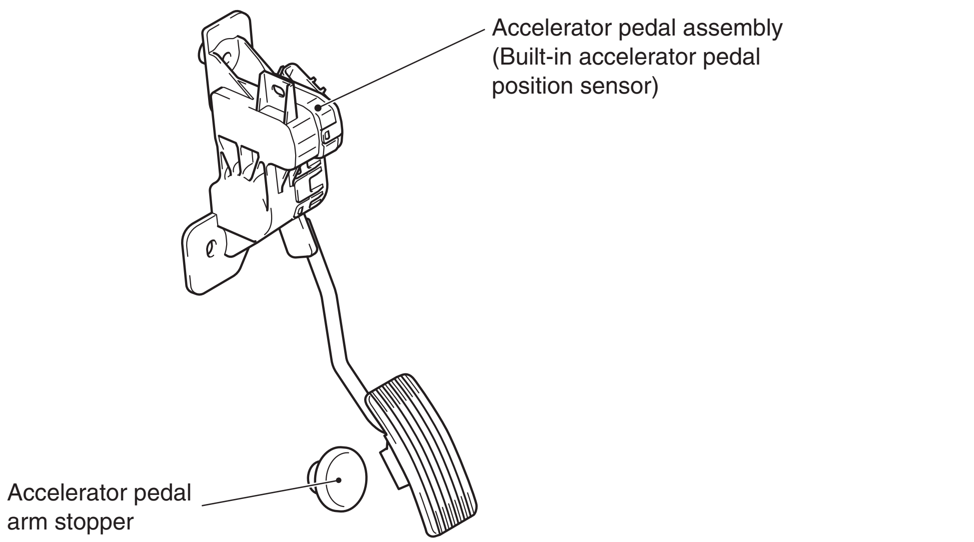
# ENGINE CONTROL

## ACCELERATOR SYSTEM

M2170003000310

For the accelerator system, an electronic throttle valve control system has been adopted, eliminating of an accelerator cable. This system detects the amount of the accelerator pedal movement by using a accelerator pedal-position sensor in the accelerator pedal assembly for electronic control of the throttle valve angle.

## CONSTRUCTION DIAGRAM



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# EMISSION CONTROL

## GENERAL INFORMATION <4A9>

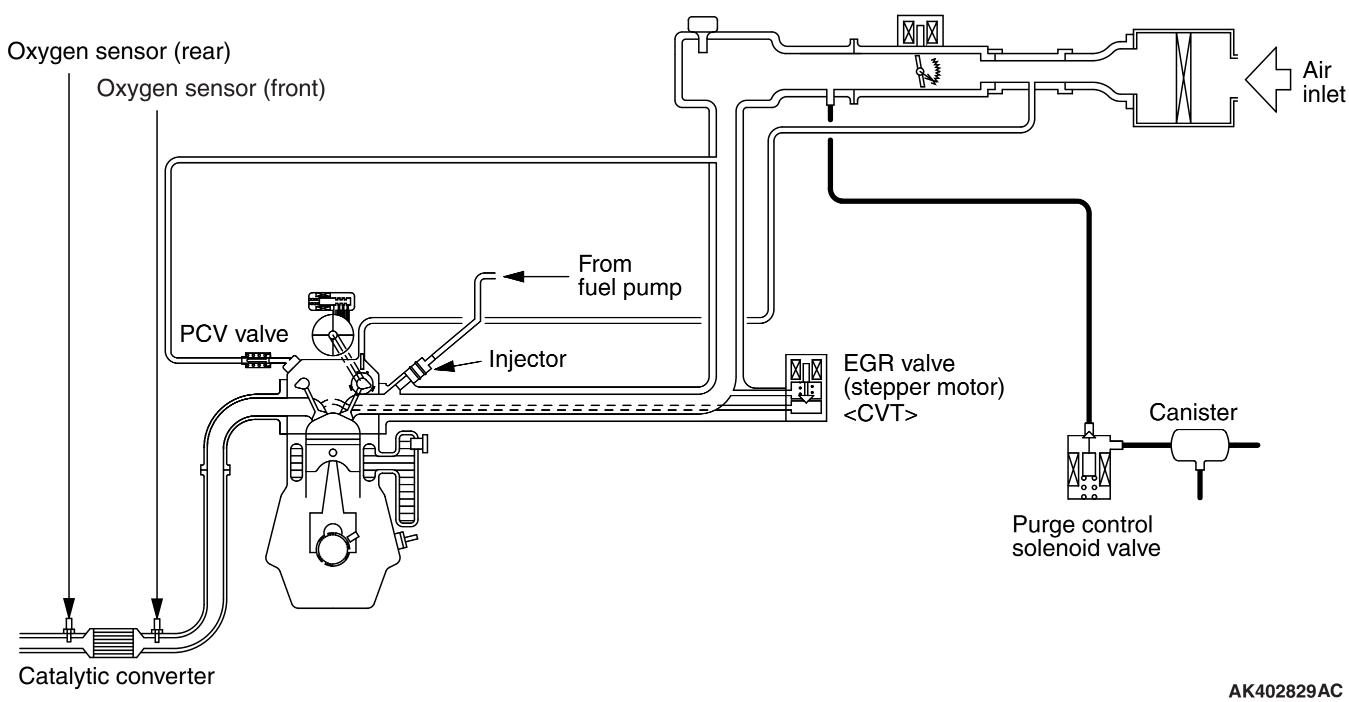
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Although the emission control systems are basically the same as those of the 4G1-Non-Turbo engine used in the COLT, the following improvements have been added.

- The adoption of the catalytic converter just beneath exhaust manifold realizes the earlier activation.
- The adoption of the dual oxygen sensor has increased reliability air/fuel ratio control.
- The abolition of the EGR system <M/T>.

| System | Remarks |
|---|---|
| Crank case ventilaton system | Closed type |
| Evaporative emission control system | Electronic control type with duty signal |
| Exhaust gas recirculation (EGR) system <CVT> | Electronic control (stepper motor) type |
| Air/fuel ratio closed loop control | Oxygen sensor signal used |
| Catalytic converter | Three-way catalytic converter |

## EMISSION CONTROL SYSTEM DIAGRAM



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## GENERAL INFORMATION <4G1>

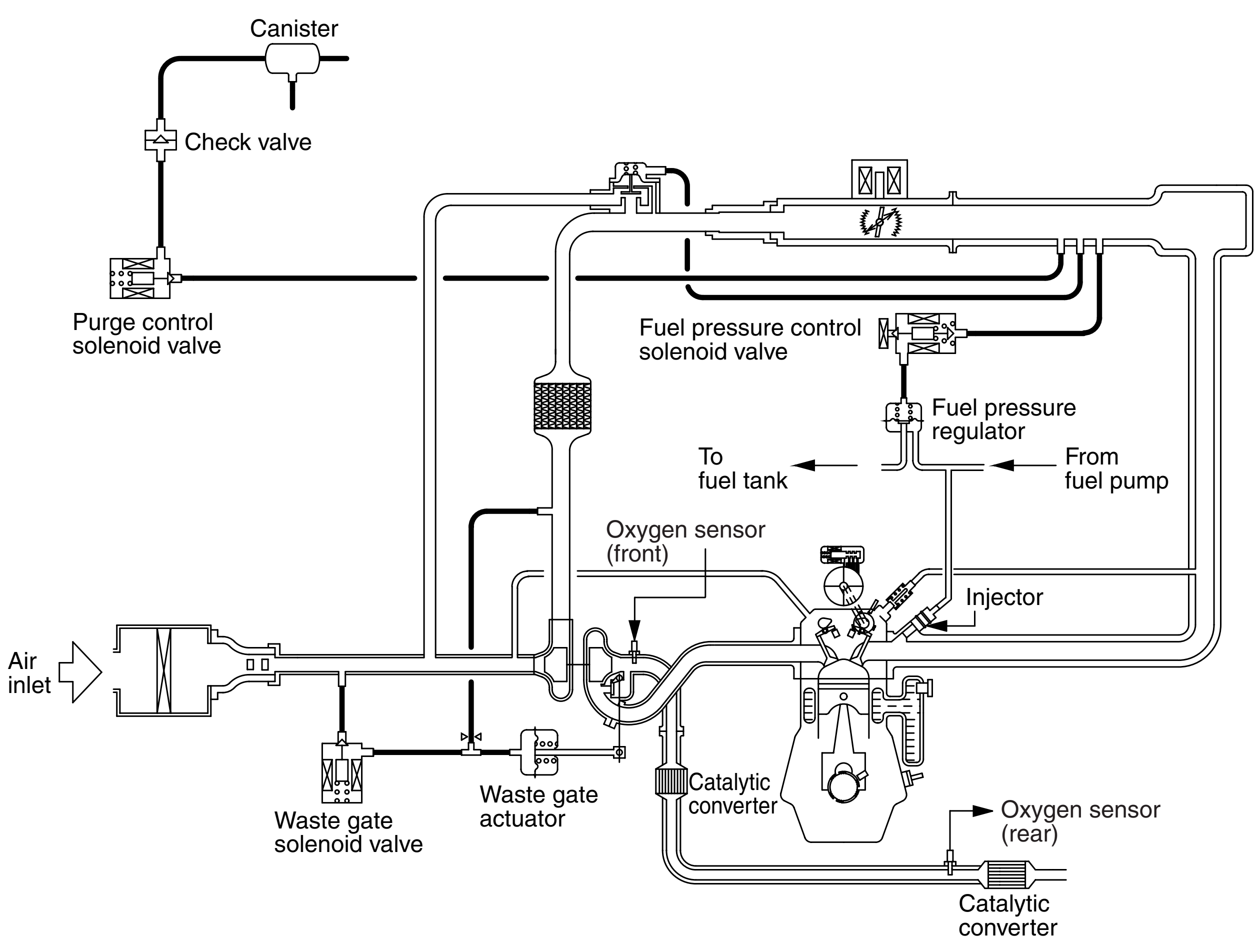
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Although the emission control systems are basically the same as those of the 4G1-Non-Turbo engine used in the COLT, the following improvements have been added.

- The adoption of the catalytic converter just beneath turbo charger and under the floor increased the performance of the emission controls.
- The adoption of the check valve between the purge control solenoid valve and the canister protects the regurgitation as turbocharging.
- The abolition of the EGR system

| System | Remarks |
|---|---|
| Crank case ventilaton system | Closed type |
| Evaporative emission control system | Electronic control type with duty signal |
| Air/fuel ratio closed loop control | Oxygen sensor signal used |
| Catalytic converter | Three-way catalytic converter |

## EMISSION CONTROL SYSTEM DIAGRAM




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